TruePosition v. Andrew

TruePosition's Motion for Enhanced Damages and Attorneys' Fees

and

TruePosition's Motion for Permanent Injunctive Relief

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TruePosition
AnyPhone Any Where™
WIRELESS LOCATION TECHNOLOGY
Andrew's Voice Channel Product (TDOA)
Ericsson study
12/00
12/01
4/02
7/02
3/03
3/03
2/04
Andrew's Channel Product (TDOA)
12/04 Andrew's willful infringement begins
9/05
10/05
Andrew lawyers study patent
Andrew joins ETSI
Settlement agreement
1st notice
2nd notice
3rd notice
4th notice & this lawsuit
1st lawsuit
Feasibility study
IPR Holders should be adequately and fairly rewarded

DECEMBER 2000

1st NOTICE OF TRUEPOSTION'S PATENTS, INCLUDING 144

December 29, 2000

Dear Mr. Kennedy:

areas of TDOA, AOA, accuracy enhancement techniques, etc. We specifically would like to bring the following patents to your attention, as it appears that you may be in need of a license with respect to your Geometrix E911 Wireless Location System. We have

2. U.S. Patent No. 5,372,144, July 5, 1994, "Cellular Telephone Location System," relating to the use of time difference of arrival (TDOA) and the reverse control channel (RCC) to locate cell phones.

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DECEMBER 2000

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system employs TruePosition's patented TDOA and AOA processing methods and systems. If you would like to inquire about a license or need further information, please contact me directly.

...rest of Intellectual Property matters. TruePosition and KSI are the owners of a growing portfolio of patents in the field of Wireless Location Systems, and particularly in the areas of TDOA, AOA, accuracy enhancement techniques, etc. We specifically would like to bring the following patents to your attention, as it appears that you may be in need of a license with respect to your Geometrix E911 Wireless Location System. We have enclosed copies for your reference:

1. U.S. Patent No. 4,728,959, March 1, 1988, "Direction Finding Localization System," relating to the use of angle of arrival (AOA) for locating mobile phones.

2. U.S. Patent No. 5,372,144, July 5, 1994, "Cellular Telephone Location System," relating to the use of time difference of arrival (TDOA) and the reverse control channel (RCC) to locate cell phones.

3. U.S. Patent No. 6,071,178, August 1, 2000, "Method for Improving the Accuracy of a Wireless Location System," relating to combining multiple location estimates to receive high accuracy location estimate.

4. U.S. Patent No. 6,150,515, August 22, 2000, "Enhanced Time Difference Localization System," relating to the use of TDOA in combination with collateral information (e.g., AOA information) for locating mobile phones.

CONFIDENTIAL AND0000355

PTX-7

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U-TDOA in GSM and GPRS Feasibility Study

~~Document for: DISCUSSION and DECISION~~

At GERAN #7 plenary 26-30 November, 2001 in Cancun, Mexico, TruePosition received approval to prepare a feasibility study examining U-TDOA location method in GPRS networks (GP-011999). A draft of the feasibility study was presented for comment at the G2 #8 bis meeting in Kista, Sweden and this document for consideration is the completed U-TDOA in GSM and GPRS Feasibility Study. Approval of this feasibility study will result in the creation of a Rel-6 work item. Release 6 timeframe is foreseen for completion of the required CRs.

EXHIBIT
Gross 2
10/12/06

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- After analysis, each cooperating LMU returns the time of arrival information to the SMLC, which then calculates the MS location. Depending upon resource availability (RF and message transport capabilities), this process can be allowed to take many seconds (if necessary and allowable) without placing severe restrictions on the resource assignment and transport latency of the network infrastructure.

3.3.3. Synchronization

All U-TDOA capable LMUs are synchronized to an externally derived and very accurate clock. Periodically (every few minutes) the LMUs report to the SMLC the relationship between this system-wide clock and the GSM frame timing at the local site and/or surrounding sites. This information is maintained by the SMLC and used to optimize the collection of a particular MS signal in the cache memory at a remote LMU. The remote LMU is subsequently given the frequencies and system time at which to extract the relevant RF signal from the cache memory to begin the location calculation process.

3.3.4. Location Determination Capacity

3.3.5. Intellectual Property Considerations

TruePosition, Incorporated may hold one or more patents or copyrights that cover information contained in this document. A license will be made available to applicants under reasonable terms and conditions that are demonstrably free of any unfair discrimination.

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NOVEMBER 2002

2nd NOTICE OF TRUEPOSTION'S PATENTS, INCLUDING 144

From: Beckley, Fred
Sent: Wednesday, November 06, 2002 1
To: Patrick D. McPherson (E-mail); Lat
Cc: Glenn J. Blumstein (E-mail)
Subject: TruePosition Patents

- 6,097,336 - Method for Improving the Accuracy of a Wireless Location System (8/01/2000)
- 6,101,178 - Pseudolite-augmented GPS for locating wireless telephones (8/08/2000)

Following our conversation yesterday, listed below are the patents that we anticipate the license would cover. As I mentioned, we would be happy to provide you with copies of any or all of these.

- 4,728,959 - Direction Finding Localization (3/1/1988)
- 5,327,144 - Cellular Telephone Location System (7/5/1994)
- 5,608,410 - System for locating a source of bursty transmissions cross reference to related applications (3/4/1997)
- 5,959,580 - Communications Localization System (9/28/1999)
- 6,047,192 - Robust Efficient Localization System (4/4/2000)
- 6,091,362 - Bandwidth Synthesis for Wireless Location System (7/18/2000)
- 6,097,336 - Method for Improving the Accuracy of a Wireless Location System (8/01/2000)
- 6,101,178 - Pseudolite-augmented GPS for locating wireless telephones (8/08/2000)
- 6,108,555 - Enhanced Time Difference Localization System (8/22/2000)
- 6,115,599 - Directed Retry Method for use in a Wireless Location System (9/05/2000)
- 6,119,013 - Enhanced Time Difference Localization System (9/12/2000)

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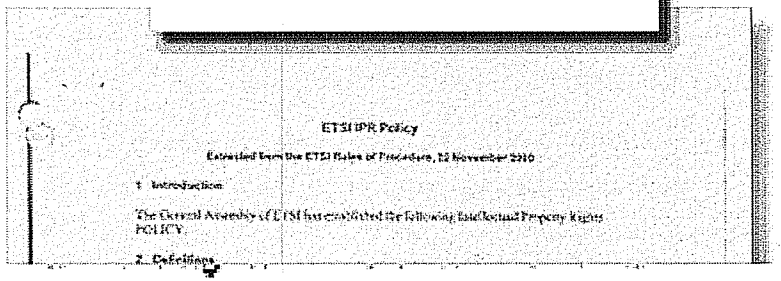
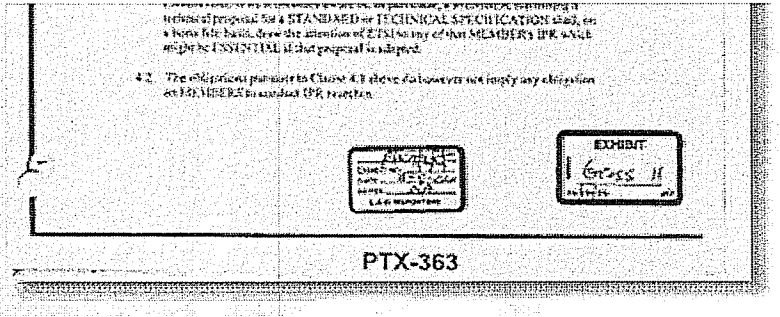
ETSI IPR Policy


ETSI IPR Policy

3.2 IPR holders whether members of ETSI and their AFFILIATES or third parties, should be adequately and fairly rewarded for the use of their IPRs in the implementation of STANDARDS and TECHNICAL SPECIFICATIONS.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